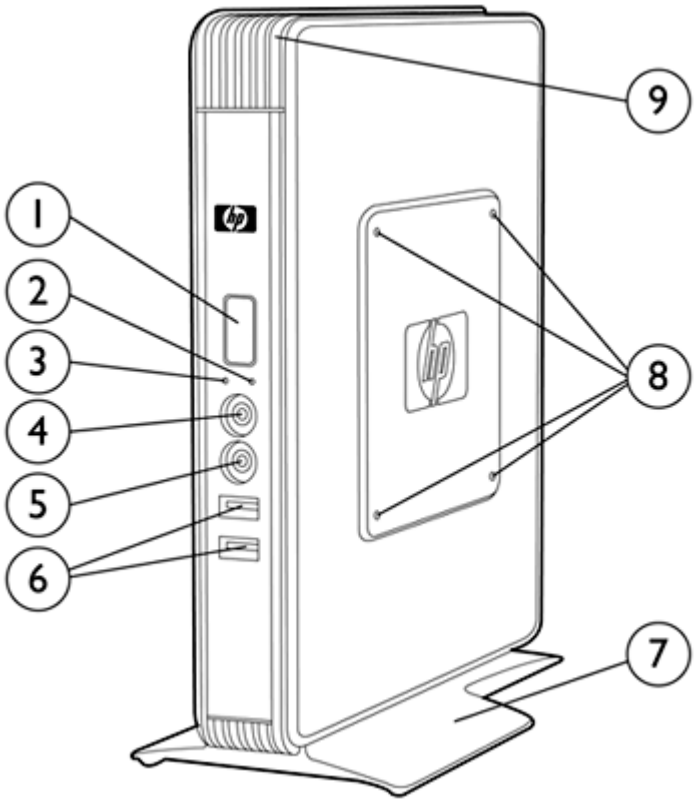
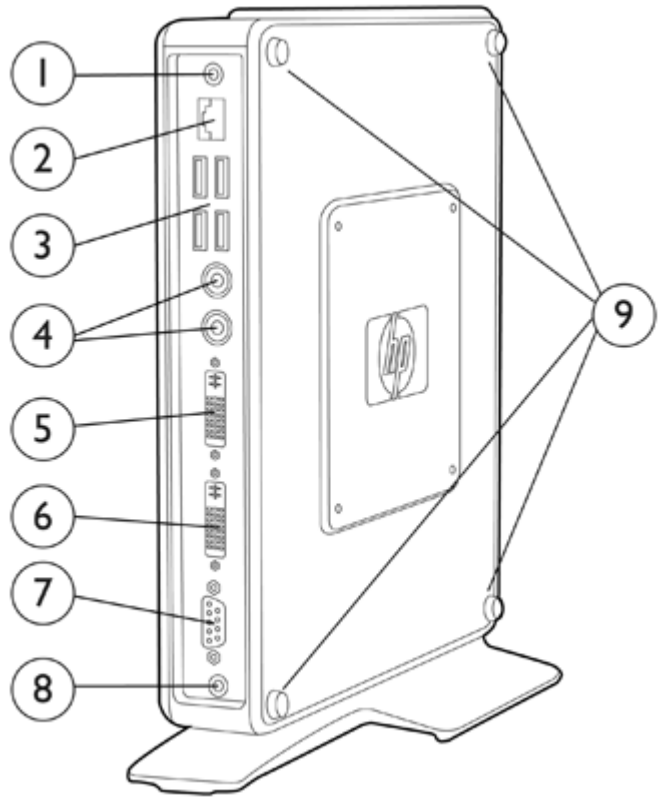
Overview



Front

1. Power button
2. Power on indicator
3. Flash activity indicator
4. Audio connector (headphone/speaker out)
5. Audio connector (mic in)
6. USB connectors (two)
7. Removable stand for vertical orientation
8. Mounting points for HP Quick Release
9. Secure USB compartment



Back

1. Audio out
2. Ethernet RJ-45 connector
3. USB connectors (four)
4. PS/2 connectors (two)
5. DVI-D monitor connector
6. DVI-I monitor connector
7. Serial connector
8. +12V DC power input
9. Feet for horizontal orientation (four)

Overview

At A Glance

- As part of our specialty thin client series, the HP gt7720 is one of HP's most powerful thin clients
- Highly extensible Windows Embedded Standard OS with support for local applications
- Excellent rich multimedia experience and enhanced USB device support in blade PC and VDI environments
  - Preinstalled with HP Remote Graphics Software, this specialty thin client is ideal for Client Virtualization environments, including VDI and blades
- Outstanding performance with AMD Turion dual-core 2.3GHz processor[1]
  - Harness the horsepower of a blade workstation client in a compact footprint
  - Configured with dual channel memory, data throughput is further optimized, bringing new levels of system performance to thin clients
- Impressive resolution and multi-display support for maximum productivity
  - Built in dual monitor support (DVI-I and DVI-D native)
  - Efficiently multi-task with up to two 30-inch diagonal displays, standard or wide-screen, to maximize desktop space (displays sold separately)
  - Multi-display rotation allows for a mixture of portrait or landscape orientations across displays
  - Capable of driving ultra high resolutions for a unified desktop
  - With two 30-inch diagonal monitors, get up to 5120x1600 (at 2560x1600 per display) resolution (displays sold separately)
- Generous memory -- 2 GB flash memory provides ample storage for drivers and applications; 2 GB dual channel system memory (256 MB reserved for graphics memory)
- Enhanced Write Filter and Symantec Endpoint Firewall for enhanced data security
- Includes Internet Explorer, Windows Media Player, Citrix ICA, Microsoft RDP, HP Remote Graphics Software client, HP Remote Desktop Protocol Multimedia and USB Enhancement software, HP Session Allocation Manager (SAM) client, HP Device Manager, and full license for Altiris Deployment Solution
- Legacy support includes serial, and PS/2 connections, along with eight USB 2.0 ports
- Protected by Hewlett-Packard Services, including a limited three-year mail-in warranty (certain restrictions and exclusions apply)

Standard Features – Models

NG814AA#ABA NG814AT#ABA (SmartBuy or Promo)	Processor	AMD Turion Dual Core CPU (2.3GHz)[1]
	Operating System	Windows Embedded Standard
	Flash Memory	2GB
	Memory	2GB DDR-2 SODIMM (dual channel, 2x 1GB modules) NOTE: 256 MB reserved for graphics memory
	Graphics	Integrated: AMD RS780G integrated graphics (ATI Radeon HD 3200 Graphics)
	Browser	Windows Internet Explorer 7
	Client Management Software	HP Device Manager 4.0, Altiris Deployment Solution (full license DS 6.9 SP2), HP ThinState, and HP Client Automation RALF included with each thin client.
	Terminal Personalities	Standard
	Keyboard	USB or PS/2; varies by region.
	Mouse	USB or PS/2; varies by region.

[1] This system requires a 64-bit operating system and 64-bit software products to take advantage of the 64-bit processing capabilities of AMD technology. Dual/quad/triple-core processing available with AMD technology is designed to improve performance of this system. Given the wide range of software applications available, performance of a system including a 64-bit operating system and a dual-core processor will vary.

Options

	NOTE: Optional accessories are available as separate purchase.	Part Number
Accessories	HP Quick Release Kit	EM870AA
	HP/Kensington Cable Lock	PC766A
	120 Watt External Power Supply	NH527AA
Expansion	PCIe Expansion Module[1]	NH524AA
Input Devices	HP PS/2 Standard Keyboard	DT527A
	HP USB Standard Keyboard	DT528A
	HP USB Smartcard Keyboard	ED707AA
	HP PS/2 2-Button Optical Mouse	EY703AA
	HP USB 2-Button Optical Scroll Mouse	DC172B
Touch screen monitors	ELO Touch 1529L Flat Panel – USB /serial combo[2,3]	E926109
	HP L5006tm LCD Touchscreen – USB/serial combo[3,4]	RB146AA
Memory	Apacer 4 GB AH522 USB 2.0 Flash Drive (DOK)[2]	91.HDE2S.HP00C
Security	HP USB Smartcard Keyboard	ED707AA
	SCM USB Smart Card Reader SCR331[2]	904054
	HP Keyed Cable Lock (BFR/PVC free)	BV411AA
Care Pack Services[5,6]	9x5 Next-Business-Day Advanced Exchange – 3 Years	331653-001; U4847E
	9x5 Next-Business-Day On-Site Coverage – 3 Years	331655-001; U4849E
	Hardware Installation	331686-001; U4865E

NOTE: Although third-party products may work effectively on HP thin clients, these non-HP products are provided "AS IS." HP does not support or warrant third-party products, including the interoperability of such products with HP thin clients. However, third-party manufacturers and vendors may provide their own warranties and support directly to you. Please contact the manufacturers or vendors for hardware or software support on their products.

[1]Availability varies by region. Check with local HP sales for availability.

[2]Option and support available directly from third party.

[3]When selecting a monitor, it is important to cross-reference the supported video resolutions of the HP thin client to the supported resolutions of the monitor. Most HP monitors have one or more supported resolutions that match HP thin client products.

[4]Only serial is supported.

[5]Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Restrictions and limitations apply. Service starts from date of hardware purchase. For details, visit: www.hp.com/go/carepack.

[6]4U4847E is available in all regions; U4849E is available in Americas and Asia-Pacific/Japan.

Processor	AMD Turion Dual Core CPU (2.3GHz)	
	NOTE: This system requires a 64-bit operating system and 64-bit software products to take advantage of the 64-bit processing capabilities of AMD technology. Dual/quad/triple-core processing available with AMD technology is designed to improve performance of this system. Given the wide range of software applications available, performance of a system including a 64-bit operating system and a dual-core processor will vary.	
Chipset	ATI RS780G; SB700	
Memory	**Flash Memory**	2 GB
	System Memory	2GB DDR-2 SODIMM (dual channel) NOTE: 256 MB reserved for graphics memory

Graphics (support for unified desktop available)

AMD RS780G integrated graphics (ATI Radeon HD 3200 Graphics)

Mode (per display)	Colour depth	Refresh rate
640 x 480	8/16/32bit	60, 72, 75, 85
800 x 600	8/16/32bit	60, 70, 72, 75, 85
848 x 480	8/16/32bit	60, 75, 85
1024 x 480	8/16/32bit	60
1024 x 768	8/16/32bit	60, 70, 72, 75, 85
1280 x 720	8/16/32bit	60, 75, 85
1280 x 768	8/16/32bit	60
1280 x 1024	8/16/32bit	60, 70, 75, 85
1360 x 768	8/16/32bit	60
1368 x 768	8/16/32bit	60, 75, 85
1400 x 1050	8/16/32bit	60
1440 x 900	8/16/32bit	60, 75, 85
1600 x 1200	8/16/32bit	60, 75 ,85
1680 x 1050	8/16/32bit	60, 75
1920 x 1080	8/16/32bit	60, 75
1920 x 1200	8/16/32bit	60, 75, 85
2048 x 1536	8/16/32bit	60, 66 ,70, 75, 85
2560 x 1600	8/16/32bit	60, 75, 85

NOTE: The table represents a sample of possible modes that this controller is capable of displaying but various factors such as the capability and EDID info returned by the attached monitor, the interface used (D-SUB/DVI-D), and dual monitor mode may limit the availability of modes, colour depth, and or refresh rate.

Input/Output/ Peripheral Support	**Keyboard**	USB or PS/2 (varies by region)
	Mouse	USB or PS/2 (varies by region)
	Printer	Local and/or network printers (RDP, ICA, LPD)
	Video	ATI RS780G
Audio	**Output**	Internal amplified speaker, 1/8-inch mini, full 16-bit stereo, 44-kHz sample rate
	Input	1/8-inch mini microphone

Technical Specifications

Security	One security lock slot (cable lock sold separately) Support for Smart Card options	
Networking	10/100/1000 Gigabit Ethernet, twisted pair (RJ-45) TCP/IP with Dynamic DNS and DHCP support Point-to-Point Protocol (PPP), Direct Connection through RS-232, Wake on LAN (WOL), PXE bcm5787m Broadcom NetlinkT™ Gigabit Ethernet	
I/O ports and connectors	Eight USB 2.0 ports (two in front, four in rear, two in secure USB compartment), Dual link DVI-Ix1, DVI-Dx1, 2 PS/2, 1 serial, 1 RJ-45	
Server OS Compatibility	Citrix XenApp 4.5 Citrix XenDesktop Citrix Presentation Server 4.0) Citrix Metaframe Presentation Server 3.0 Citrix Metaframe XP Presentation Server Citrix Metaframe 1.x Windows® 2000/2003 Server families, Windows 2000/2003 Server Terminal Services Windows 2000 Advanced Server, Windows 2000 Advance Server Terminal Services Windows NT 4.0 Server, Windows NT 4.0 Terminal Server Edition VMware View (previously VMware VDI)	
Software Included	Operating System/ Protocols/Components	Windows Embedded Standard Citrix ICA 11.0 (XenApp Plugin for Hosted Apps 11.0) Microsoft RDP 6.1 Microsoft Internet Explorer 7 Windows Media Player 11 HP TeemTalk Terminal Emulator 7.0 Citrix ICA 11.1 (Desktop Receiver 11.1) available as an add-on
	Security	Enhanced Write Filter Symantec Endpoint Protection
	Session Allocation Managers/Session Brokers	Preinstalled: HP Session Allocation Manager (SAM) 2.3 Citrix Desktop Delivery Controller enabled through web browser VMware View Manager 3.0 (previously known as VDM broker) 3rd party add-on: Leostream Desktop Connection Broker (contact vendor directly for broker sale and support) Provision Networks (Quest) broker (contact vendor directly for broker sale and support)
	Multimedia and USBR solutions	HP Remote Graphics Software Receiver 5.2 for VMware View and Microsoft Terminal Services RDP 6.0 HP Remote Desktop Protocol Multimedia and USB Enhancement software for VMWare View Citrix HD-X support for XenApp Citrix HD-X support for XenDesktop
	Management	HP Device Manager agent 4.0 Altiris Deployment Solution (full client license). Management console available as free download from Altiris at: www.altiris.com/hptc HP ThinState for rapid deployment HP Client Automation RALF agent
	Other add-on software available (see: www.hp.com/support for latest list of available add-ons)	

Technical Specifications

OS Languages	English	
Dimensions H x W x D (approximate)	Without stand	10.0 x 1.8 x 8.47 in (254.5 x 45.7 x 215.14 mm)
	With stand	10.5 x 1.8 x 8.47 in (266.7 x 45.7 x 215.14 mm)
Weight (approximate)	With stand	3.5 lb (1.6 kg)
Power*	Operating voltage range	100-240 VAC
	Rated line frequency	50-60 Hz
	Power output (max)	120W
	Rated output current (max)	6.15A
	Output voltage	+19V DC
	Power consumption	Idle: 41W with dual display AMD Cool 'N' Quiet Technology is supported on this product. NOTE: Additional software may be needed to enable this feature.
	NOTE: The actual power consumption at your location could vary and is dependent on many factors including but not limited to software load on the thin client, number of attached monitors and peripherals, and environmental factors.	
Environmental	Temperature range (operating)	50° to 95° F (10 to 35° C)
	With Expansion Module or mounted with HP Quick Release	50° to 95° F (10° to 35° C)
	Temperature range (off)	-22° to 140° F (-30 to 60° C)
	Cooling	Active
	Humidity	20% to 80% condensing 10% to 90% non-condensing
	Acoustic Level	Variable, 26 dBA idle @ ambient room temperature
Regulatory Compliance	Product Safety	International: IEC60950-1, 12:2005, with CB Certificate and all National Deviations US and Canada: UL 60950-1 / CAN/CSA 22.2 No. 60950-1-03, 07:2006, Bi-National Standard for ITE Safety in the US and Canada and is published jointly by UL and CSA. Europe: EN 60950-1, 06:2003, Information Technology Equipment
	Ergonomics	The product has been tested and found to comply with all applicable GS ergonomic requirements.
	EMC	FCC Class B; CE Mark; EN55022 B; EN55024; BMSI, KCC, CCC, C-Tick, and VCCI
Warranty	Three-year limited hardware warranty. NOTE: Certain restrictions apply. Consult the HP Customer Support Centre for details.	

Emulations	Emulation	Terminal ID
	ADDS A2	
	AIXTerm	
	ANSI BBS	
	AT 386	
	DG 410	

	HP 70092	70092
	HZ1500	
	IBM3151	Mod11, Mod31
	IBM3270	3278-2 (24x80), 3278-3 (32x80), 3278-4 (43x80), 3278-5 (27x132), 3278-2-E (24x80), 3278-E (32x80), 3278-4-E (43x80), 3278-5-E (27x132), 3279-2 (24x80), 3279-3 (32x80), 3279-4 (43x80), 3279-5 (27x132), 3287-1
	IBM5250	5291-1, 5292-2, 5251-11, 3179-2, 3196-A1, 3180-2, 3477-FC (27x132), 3477-FG (24x80), 3486-BA, 3487-HA, 3487-HC, 3812-1
	SCO Console	
	TA6530	
	TVI910	
	TVI920	
	TVI925	
	TVI950	
	TVI955	
	VT52, VT100	VT100, VT101, VT102, VT125, VT131, VT132, M2200, VT220, VT240, VT320, VT340, VT420
	VT HP220	VT-HP220
	WY50	
	WY50+	
	WY60	
Environment-friendly Products and Approach	RoHS Compliance	Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to comply with the requirements of the RoHS Directive on a worldwide basis. From July 1, 2006, RoHS substances are being virtually eliminated by reducing substances to levels below legal limits for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).
	Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel
- Ozone Depleting Substances

- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC)
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use recyclable packaging materials such as paper and corrugated materials (limited availability of recycling facilities)
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas.

To recycle your product, please go to: http://www.hp.com/recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers.

These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:
[link to new HP white paper now in progress]
Global Citizenship Report:
http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
Eco-label certifications:
http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html
ISO 14001 certificates:
http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html

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